# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 11/02/2016 01:26 PM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 07/29/2016 03:45 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124775 | -1 | 1.79 | 124625 | 1.73 |
| Blue | F | SSC | 125000 | 123277 | -2 | 3.82 | 123630 | 3.58 |
| Blue | E | FITC | 22946 | 22497 | -2 | 2.56 | 1003 | 9.99 |
| Blue | D | PE | 28770 | 28138 | -3 | 2.11 | 1012 | 9.51 |
| Blue | B | PerCP-Cy5-5 | 51099 | 50288 | -2 | 3.46 | 1444 | 16.19 |
| Blue | A | PE-Cy7 | 42312 | 42211 | -1 | 5.07 | 654 | 33.61 |
| Red | C | APC | 52169 | 51425 | -2 | 3.02 | 2955 | 9.23 |
| Red | A | APC-Cy7 | 56705 | 55693 | -2 | 3.06 | 1157 | 10.91 |
| Violet | B | V450 | 14708 | 14118 | -5 | 4.07 | 674 | 9.29 |
| Violet | A | V500 | 58608 | 57199 | -3 | 3.84 | 2543 | 6.56 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19511 | 4.50 | 600 | 2 | N/A | N/A | Pass |
| Blue | F | SSC | 61434 | 2.11 | 528 | 10 | N/A | N/A | Pass |
| Blue | E | FITC | 111 | 37.07 | 534 | 3 | 0.0218 | 89 | Pass |
| Blue | D | PE | 220 | 28.58 | 530 | 4 | 0.1740 | 256 | Pass |
| Blue | B | PerCP-Cy5-5 | 226 | 43.35 | 626 | 4 | 0.0112 | 118 | Pass |
| Blue | A | PE-Cy7 | 72 | 113.22 | 675 | 4 | 0.0134 | 19 | Pass |
| Red | C | APC | 347 | 26.51 | 590 | 0 | 0.0220 | 62 | Pass |
| Red | A | APC-Cy7 | 126 | 40.43 | 573 | -3 | 0.0062 | 2068 | Pass |
| Violet | B | V450 | 82 | 41.70 | 465 | 6 | 0.0408 | 1598 | Pass |
| Violet | A | V500 | 184 | 24.25 | 495 | 7 | 0.0138 | 696 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.18 | -30.73 | 0.86 |
| Blue | 20.35 | 16.27 - 24.41 | 1.25 | 0.99 - 1.49 | 0.00 | 0.00 | 1.33 |
| Red | 16.23 | 13.27 - 19.91 | N/A | N/A | 30.98 | 31.39 | 1.15 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 10034

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments